

October 12, 1976

MEMO TO FILE:

Re: Hydro-Jet Services, Inc.  
Lucky Strike 8 - 10  
Sec. 26 & 21, T. 35 S., R. 11 E.  
Garfield County, Utah

ACT-017-001

On October 7, 1976, Brian Buck and Ronald Daniels of the Division visited the Hydro-Jet operation at their request. They met with Mr. Gary Ekker, Site Supervisor, Mr. Peter Tooker, Site Safety Inspector, and Mr. J.R. Rookstool of the Nuclear Assurance Corporation, Grand Junction, Colorado.

We answered their questions relating to the reclamation plan for their operating mines on the Lucky Strike 8 - 10 Claims. They said that after a detailed map of the claims is prepared they will resubmit a revised plan for our approval.

They informed us that Jacob's Engineering Company of Pasadena, California was now doing studies related to their milling process and that when the processing design was completed a plan would be submitted on the mill and tailings pond.

Mr. Ekker then took us on a tour of the site to show us the drainage area upstream from the tailings dam and the tailings containment facility itself. As a result of our observations we made the following suggestions:

- 1) The area that could possibly drain into the tailings pond should be mapped and drainage diversions constructed to decrease the area as much as possible.
- 2) A diversion dam should be constructed just above the tailings with a suitable spillway to collect and divert all water not diverted by the facilities mentioned above.
- 3) Enlarge the tailings pond by excavating its sides that are in virgin ground. This will provide fill for the above mentioned diversion dam and for increasing the height of the tailings dam in the future.
- 4) Seal all interior surfaces of the tailings pond with a compacted clay soil blanket of 6 - 12 inches in thickness covered by 12 inches of borrow material to protect the clay blanket.

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- 5) Run the tailings into the pond from distribution points on top of the tailings dam. This is to maintain the pond as far back from the dam as possible and to provide an increased dam thickness for future increases in pond height.
- 6) Before any more work on the tailings pond is done, a soil engineer should be consulted to evaluate the present stability and geology of the facility and to design the above mentioned changes in the facility. The evaluation should address the factor of safety calculations for different failure modes of the dam and the anticipated seepage quantities out of the pond.

Mr. Ekker said that he would comply with the above suggestions and placed Mr. Tooker in charge of the development.

DIVISION OF OIL, GAS, AND MINING

Brian W. Buck  
Engineering Geologist

BWB/lm